

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-7 (canceled).

8. (new): A stator of an electric machine comprising:  
an autonomous cooling circuit,  
means for sealing the cooling circuit with respect to a rotor of the electric machine,  
a magnetic circuit comprising slots, and  
a winding arranged in the slots, wherein the sealing means comprise a fluidtight shell sandwiched in the magnetic circuit.

9. (new): The stator as claimed in claim 8, wherein the shell is of tubular shape and is centered around an axis of revolution of the electric machine.

10. (new): The stator as claimed in either of claim 8, wherein the magnetic circuit comprises a first stack of laminations produced outside the shell and a second stack of laminations produced inside the shell.

11. (new): The stator as claimed in claim 10, wherein the first and the second stacks of laminations comprise slots and in that the slots of the second stack of laminations are arranged in the continuation of the slots of the first stack of laminations.

12. (new): The stator as claimed in claim 11, wherein the winding is completely situated in the slots of the first stack of laminations.

13. (new): The stator as claimed in claim 11, wherein the second stack of laminations comprises bridges which close the slots of the second stack of laminations, the bridges being situated in the immediate vicinity of a gap of the electric machine.

14. (new): The stator as claimed in claim 8, wherein the shell is formed by a coating of one of the stacks of laminations.

15. (new): The stator as claimed in claim 9, wherein the magnetic circuit comprises a first stack of laminations produced outside the shell and a second stack of laminations produced inside the shell.

16 (new): The stator as claimed in claim 12, wherein the second stack of laminations comprises bridges which close the slots of the second stack of laminations, the bridges being situated in the immediate vicinity of a gap of the electric machine.